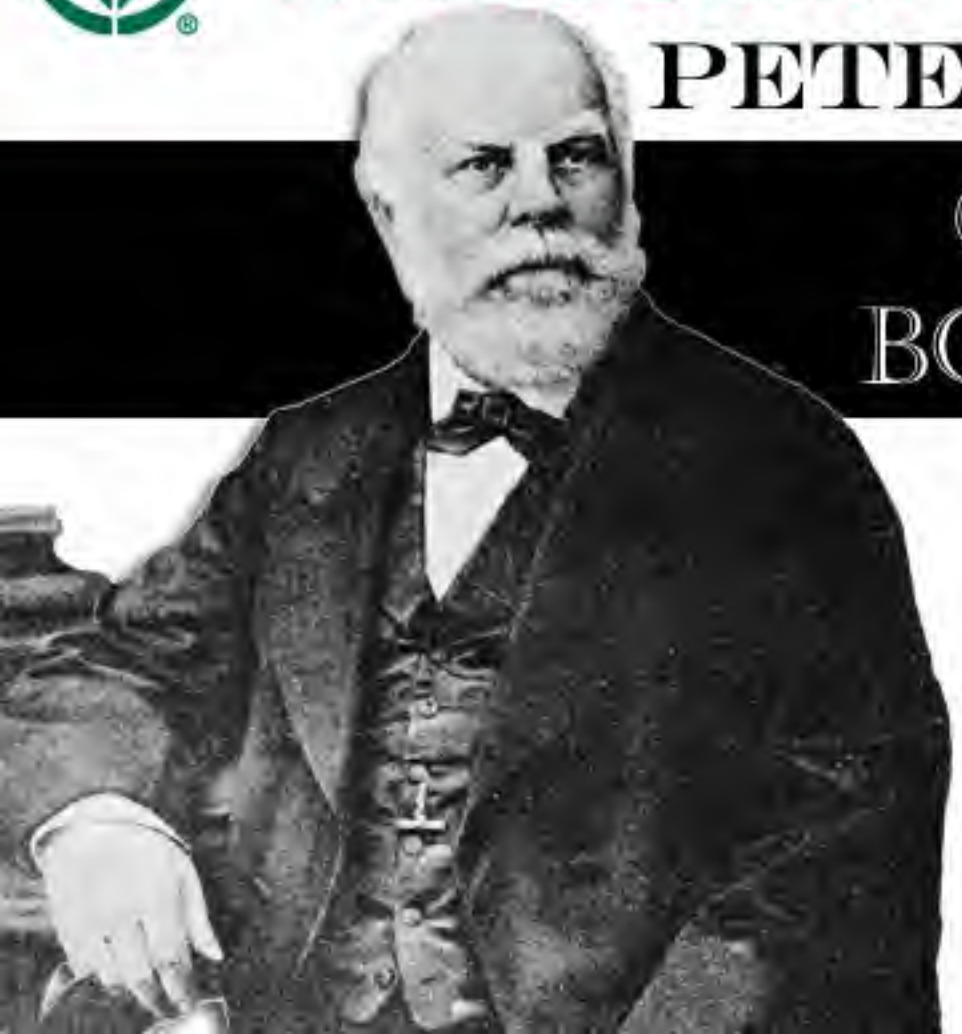
Missouri Botanical Garden
Peter H. Raven Library

George Engelmann Botanical Notebooks



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Pinus Taeda

Delaware July 1863

— young, full grown leaves of the season

x30

x60

x280

Stamens & teeth of fertile cone

0 1 2 3 4 5 6 7 8 9 10
cm
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MISSOURI BOTANICAL GARDEN

11237

JONES & LEITCH

Druggists

Cor. Fifth & Market Sts. St. LOUIS, Mo.

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GEORGE ENGELMANN PAPERS

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Pinus Taeda

North Carolina

Sept 15 1863

M A Curtis 1863

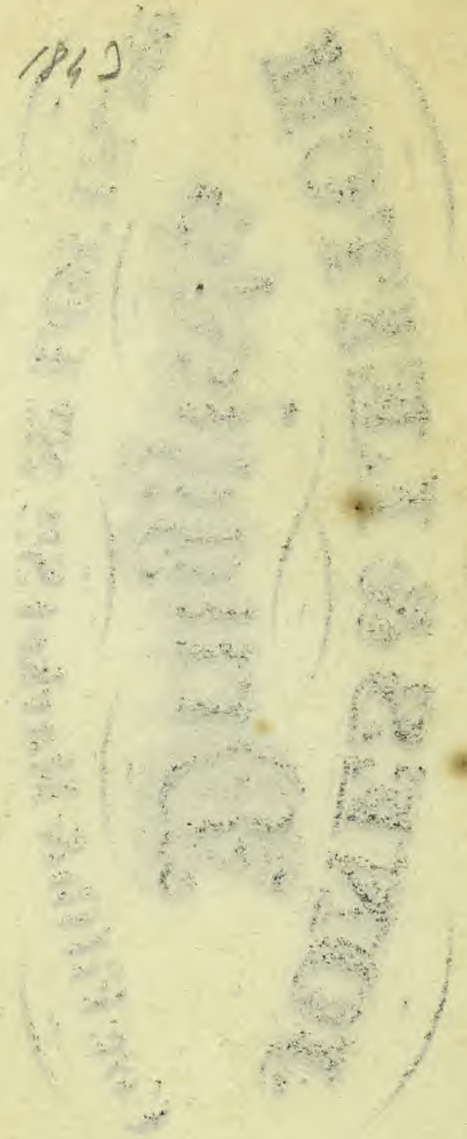
sem. rigra plus minus tuberculata

intus longitudinaliter 3 carinata
T. rugosa

extus pannulo lato alae fere tecta

Latere triangulata compressa

anceps ita ut acuto marginata



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Druggists

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McKittrick & Co. 65 N. Main St.

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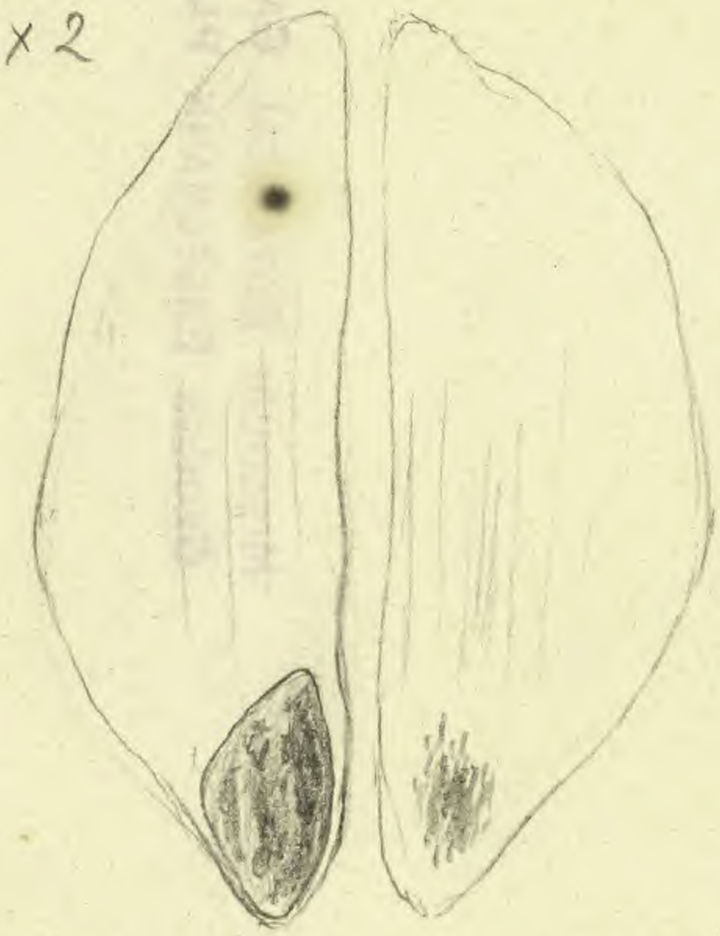
Pinus Taeda Nov 16 1863

Greenwood, Delaware, M & C Canby May 1863

×2



seed grayish, spotted rough, with 3 ridges on the inside

Shell of seed remarkably thick

28 10 7½ 4

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cm
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ALEX. LEITCH

APOTHECARY AND CHEMIST.

Marble Building, cor. 4th and Olive Sts..

ST. LOUIS, MO.

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P. Treda

Aiken S.C. W. H. Ravenel 1870

March 16 1871

T. C. DUPUY & CO.
Importers of Staple & Fancy Dry Goods
Corner Dauphine & St. Louis Sts.
New Orleans, La.

11240

L. O. WOODRUFF,

Druggist,

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Pin Taeda

May 22 1878

Texas On the Brazos, Lindheimer,

x30

3 principal parenchyma ducts

no otter, or other

2–5 around sheath

hypoderm all around

leaf in slender, weak bundles — none on dots,

x60

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May 22 1878

Leaf 1.8 – 1.9 mm wide

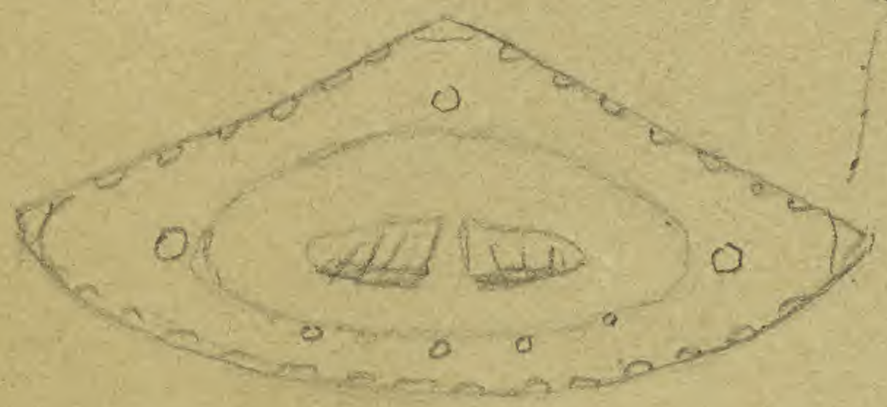
P. Fraseri

Stone Mountain Ga

IE Sept 1876

×60

×30



×150

3 regular parenchymatous duct near sheath, and oft 2–4 additional ones close to sheath

hypoderm bundles strong, all around, none around duct, but often double very of cells

hypoder ÷ strong bundles all around leaf

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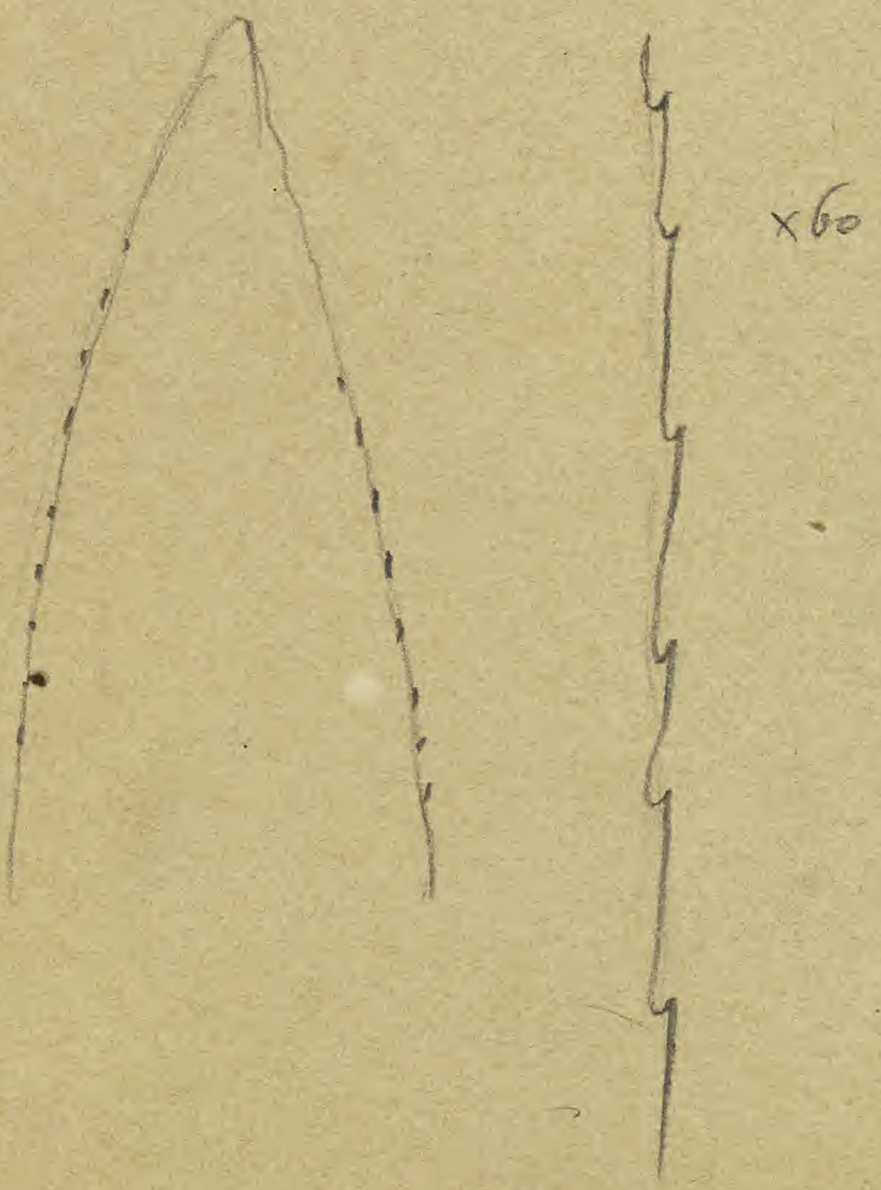
May 22 1878

Pin Tseda

Maryland, Canby



mostly 3 parenchymatous
ducts, sometimes 1 or 2
accessory ones close to
sheath, without hypoderm
hypoderm bundles in
corners and small ones
all around

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Pin Theda

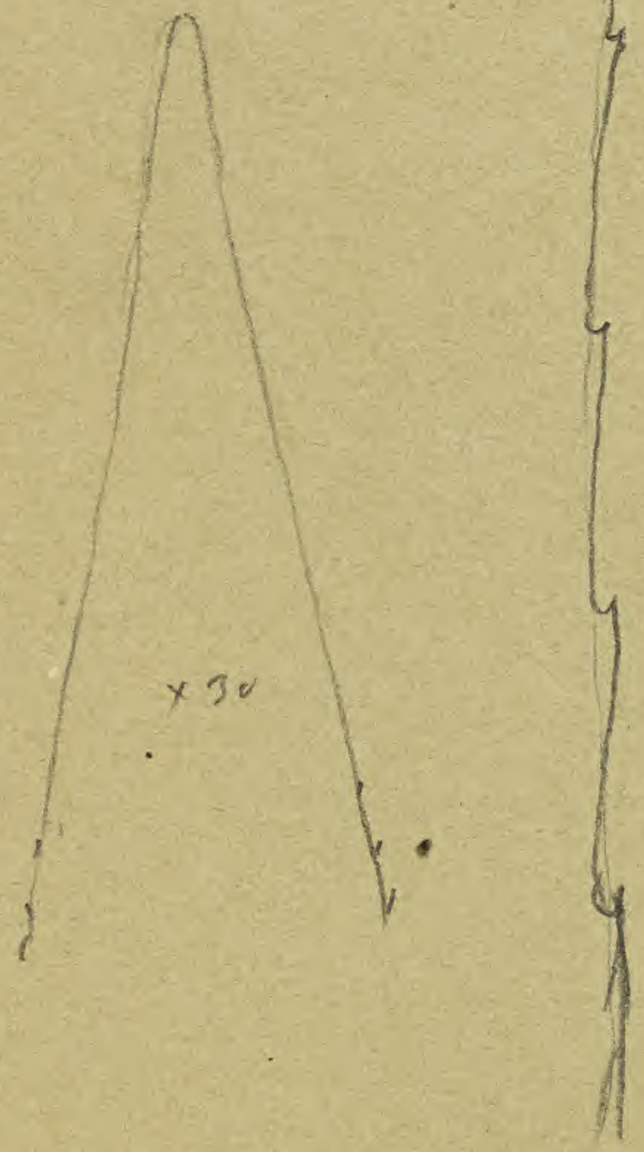
May 22 1878

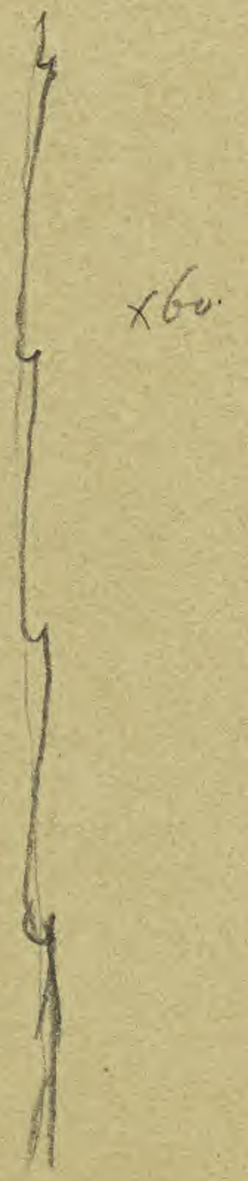
Leaves ÷ ¼ [illegible]

Dr Mellichamp S. Carol

×30

hypoderm feeble, all around
÷ 6 bundles





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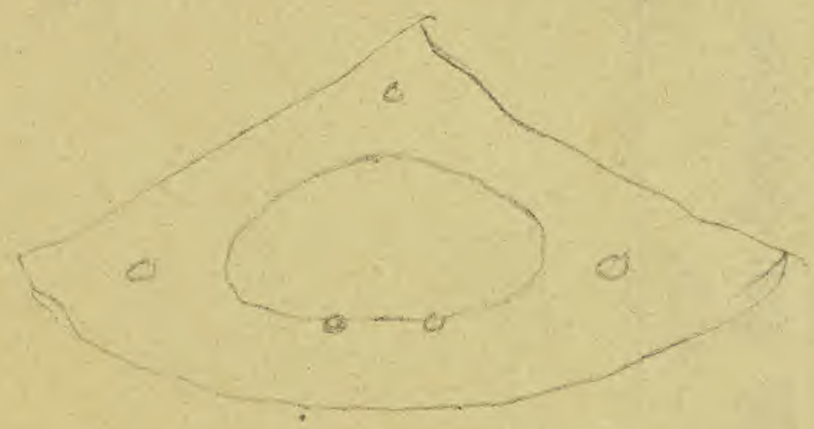
Pin Prairie

June 6 1878

Virginia Camley May 1878

x 30



2 or 4 to 5 ducts. parenchyma
or close to sheath
hypoderm in many small bundles
or edges and all around

In the large old leaf
about 50 cells from the
sheath. In the young one
I find them of same size
& I only 32 or 33 in number
vessels not distinctly seen

young leaf, 1 inch long

3 3
4 4

0 1 2 3 4 5 6 7 8 9 10
cm
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Henry T. Rohlfing,

APOTHECARY,

No. 2600 Laclede Ave., S. W. Cor. Jefferson Ave.,

ST. LOUIS, MO.

No. ..... Date, ... 187

℞

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Geo. Engelmann, M. D.,
No. 3003 Locust Street.

cm 0 1 2 3 4 5 6 7 8 9 10
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6 tab
3 tab.

5b

P. serotina

278-286

0 1 2 3 4 5 6 7 8 9 10
cm
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Pinus serotina ? (3 leaves) May 12 1863

H.B. Missouri. May 07 1863

0.038

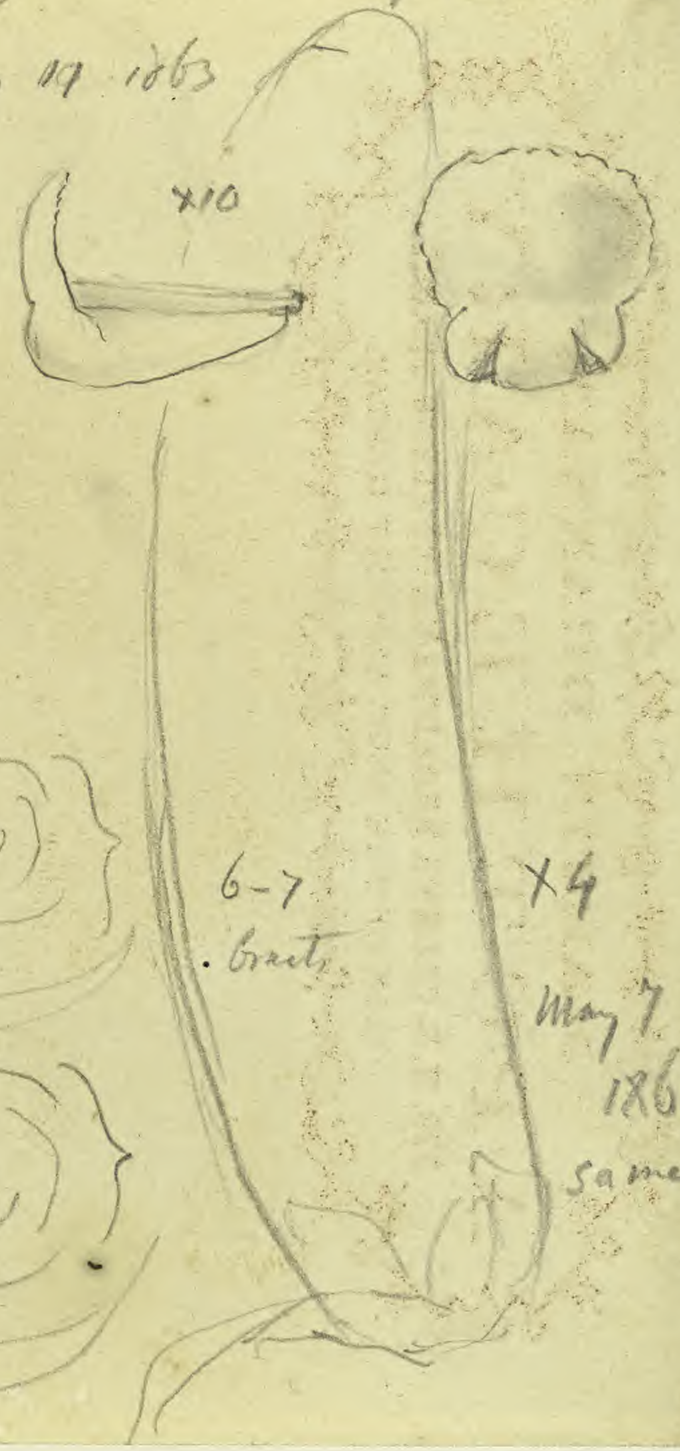
×4.15

×4

0,041

stipe very short.

9 bracts.



×10

6-7 bracts.

×4

May 7. 1865 same tree

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APOTHECARY,

379, N. E. CORNER BROADWAY & O'FALLON STREET,

SIGN OF THE BLUE AND GILT MORTAR.

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GEORGE ENGELMANN PAPERS

1400 | 004 / 0991 / 0071 1700 | 0038 | 555 / 1845 / 0091 | 514

" Pinus serotina " ?

May 1863

H. B. Mission. May 23. 1863

Light yellowish green

X4

very young fruit

X 10

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May 1870

Pinus serotina

Aiken, S.C April 1870

Length of ♂ spike 1 – 2 inches

width 1½ —

aments 3/4 – 1 inch long

& involucral scales nearly of equal length

Length of Pollen grain

32 – 35 / 415 mostly 34 / 415 m m

×10

×4

leaves 5 – 7 on 1½ inches long

Cone

Young branch

in Cone 3d, dark

reed black

rough & hairy

slightly ridged

back of seed partly

covered by lacerated

wing

6 Stylid

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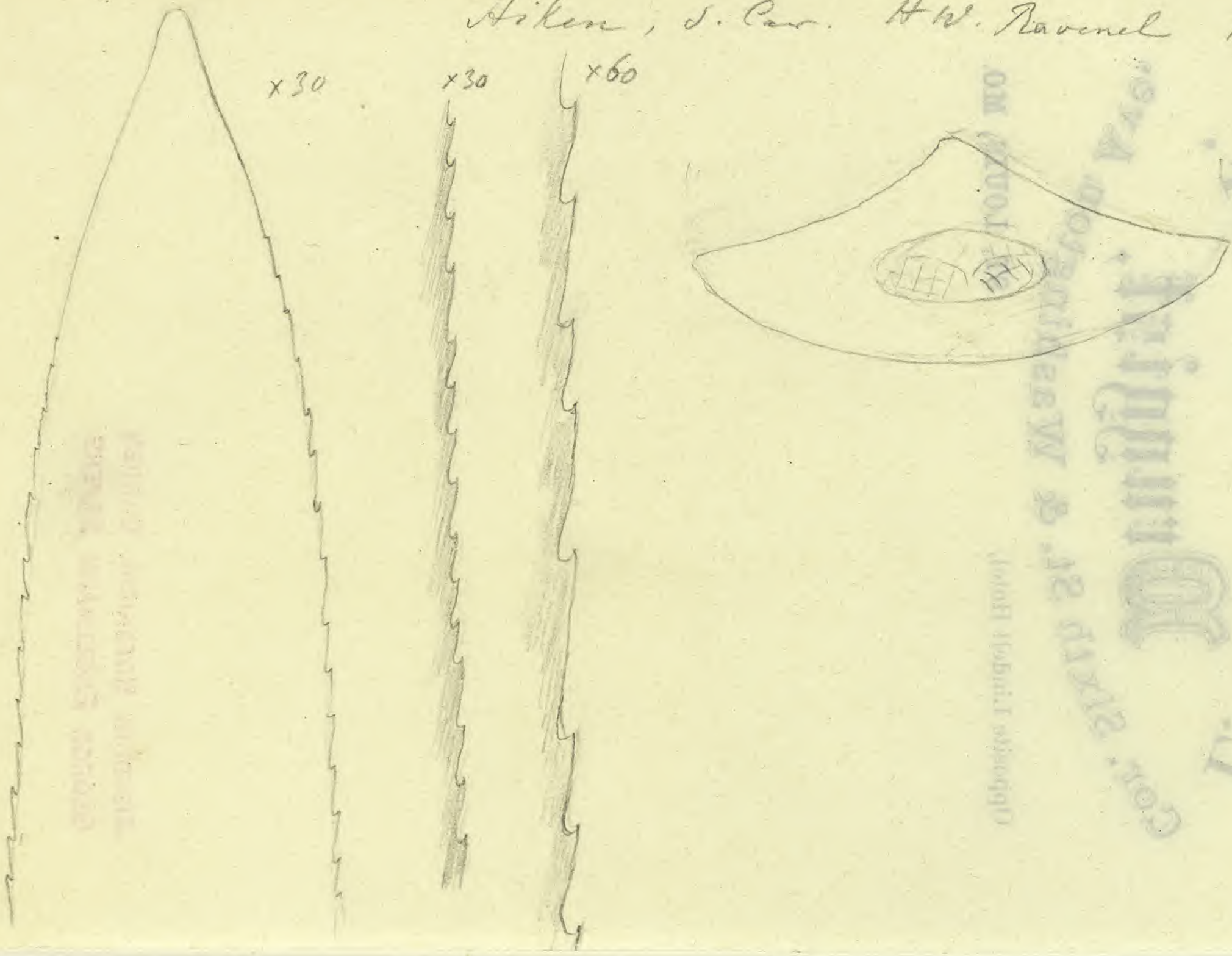
Pinus serotina ? March 16 1871

Aiken, S. Car. H. W. Ravenel 1870



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Pinus serotina !

March 16' 1871

Bluffton S. C. Dr mellichamp Oct. 1870

X30

X30

X60

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Pinus resinosa

Bluffton, Dr Mellichamp

March 28 1871

21 March 1871

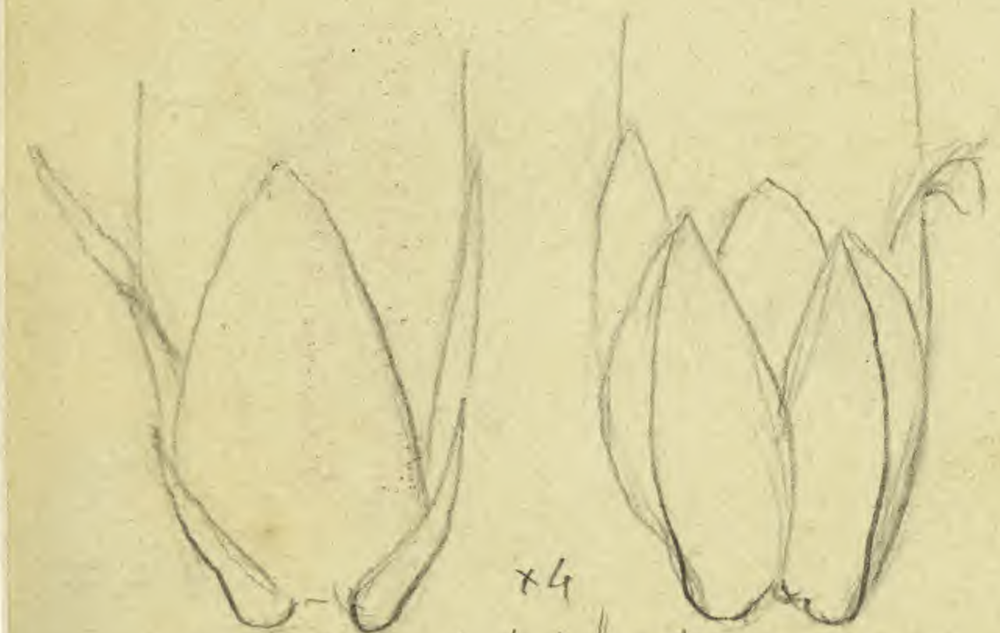
very early spring

unripe pollen cells ×415

unripe anther

×30

Part fresh leaf



×4

posterior, lower, basical || anterior, upper

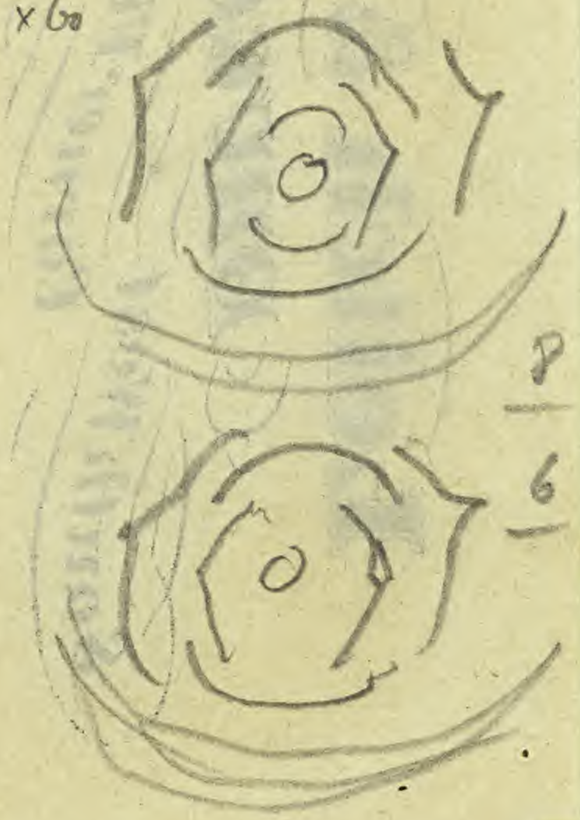
only 6 inner.

axial side

×30

×30

×60



P/6

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Leitch & Corlies

DRUGGISTS

South West Corner Fifth and Market Streets

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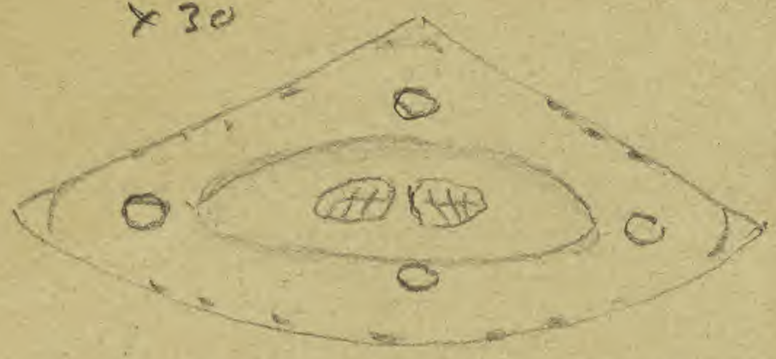
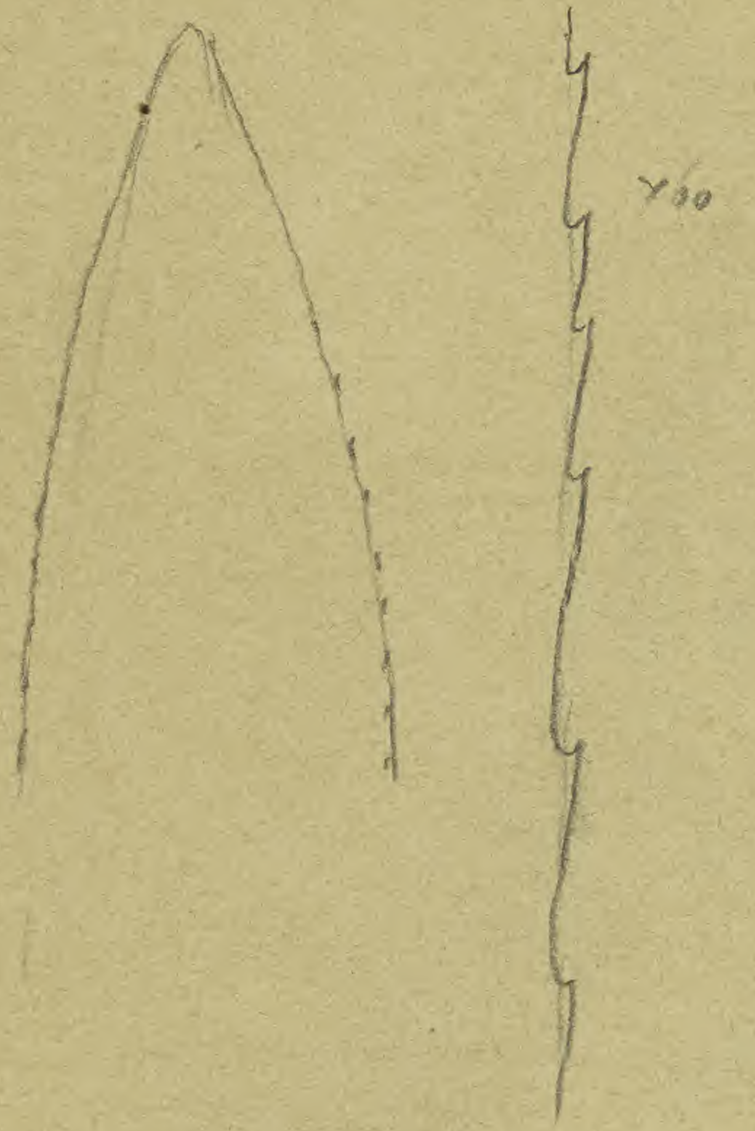
P. serotina

Rennet, Aiken

May 21 1878





Quite mostly 4, the
dorsal one parenchymatous
or close to sheath; no
hypoderm around there
hypoderm in 3 corners
very scattering all around

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Cor. 5th
and
Walnut St

MASTBROOK'S PHARMACY

No.
1006 Olive
Street.

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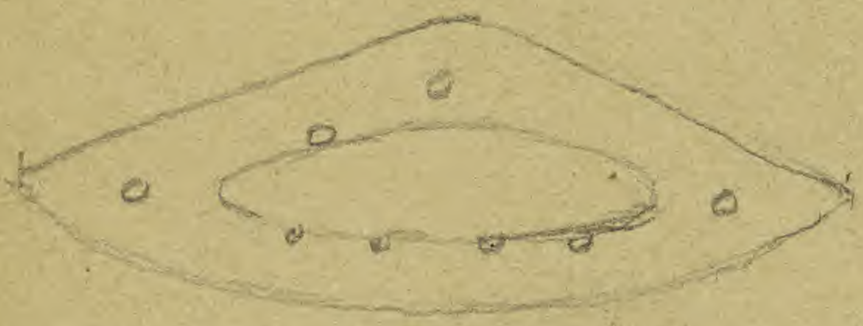
P. resolina !

Mellichamp. S. Car

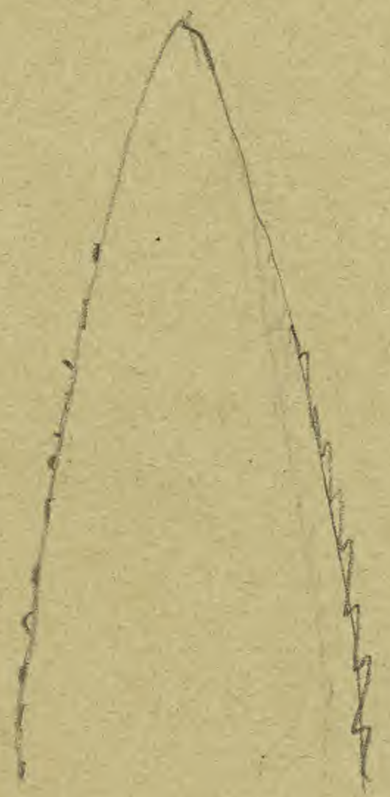
May 21 1878

×30

usually
3 lobed



sometimes many accessory dots close
to sheath
no hypoderm on dots
but strong at 2 angles or edges
small thin bundles around surface



×6

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"P. serotina"

May 22 1918

Hort Bot Missouri

Ducts 2 – 4, without hypoderm

hypoderm in the corners and interrupted in their small parts all around

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